

Date: Mon, 13 Dec 93 04:30:39 PST
From: Ham-Digital Mailing List and Newsgroup <ham-digital@ucsd.edu>
Errors-To: Ham-Digital-Errors@UCSD.Edu
Reply-To: Ham-Digital@UCSD.Edu
Precedence: Bulk
Subject: Ham-Digital Digest V93 #145
To: Ham-Digital

Ham-Digital Digest Mon, 13 Dec 93 Volume 93 : Issue 145

Today's Topics:

 amatuer radio
 COMPLETE Documented NOS Wanted
 C SOURCE FOR PBBS??
 F6FBB Mailing List
 MSYS 1.16 Release
 WANTED SCHEMATIC TUBE AM RADIO 1955 - 1957
 When will we get digital cellular?

Send Replies or notes for publication to: <Ham-Digital@UCSD.Edu>
Send subscription requests to: <Ham-Digital-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Digital Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-digital".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Thu, 09 Dec 93 15:16:24 GMT
From: netcomsv!netcomsv!bongo!skyld!janguis@decwrl.dec.com
Subject: amatuer radio
To: ham-digital@ucsd.edu

In article <1993Dec7.160318.8345@ccsvax.sfasu.edu> z_addicksda@ccsvax.sfasu.edu
writes:

>
> I would just like to say that I think amatuer radio is the greatest
> thing in the world. It is
>

Personally, I would prefer amateur radio.

An .edu site, guess the entrance exams went down again.

Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA | "It is difficult to imagine our
Internet: jangus@skyld.tele.com | universe run by a single omni-
US Mail: PO Box 4425 Carson, CA 90749 | potent god. I see it more as a
Phone: 1 (310) 324-6080 | badly run corporation."

Date: Fri, 10 Dec 1993 16:57:36 +0000
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!pipex!
uknet!demon!g3nrw.demon.co.uk!ian@network.ucsd.edu
Subject: COMPLETE Documented NOS Wanted
To: ham-digital@ucsd.edu

In article <2e7jq7\$87o@tamsun.tamu.edu> msw1633@tamsun.tamu.edu writes:

>In article <9DEC199306480878@nssdca.gsfc.nasa.gov>,
>ERICH FRANZ STOCKER <stocker@nssdca.gsfc.nasa.gov> wrote:
>>
>>I have enjoyed the work and am still enjoying it. I don't think anything else
>>available comes close to providing the information needed to optimize the
>>NOS environment. I'm getting close to the point where I feel that I can
>>really do that.
>>
>>Erich Stocker
>>N30XM
>
>Er.. so where do we get this tome? I sure could use an introduction to
>NOS. Is it available by ftp or is it only available through the ARRL?
>
>Thanks
>
>Mark
>

Was it something I said? Since the original post in this thread I've been snowed under with requests for more information on the book "NOSintro". To save repeating the details "n" times to individuals, I thought I'd save network bandwidth by posting once to this thread.

So here goes:

```

* * * * *
*       -----       *
*       "NOSintro"     *
*       -----       *
*                               *
*   An Introduction to the   *
*           KA9Q             *
* Network Operating System  *
*                               *
*       by Ian Wade, G3NRW  *
*                               *
* A "DOWERMAIN" PUBLICATION *
*                               *
*       ISBN 1-897649-00-2   *
*                               *
* * * * *

```

356 pages, fully illustrated.

"NOSintro" is the definitive guide to the KA9Q Network Operating System (NOS).

In "NOSintro" you'll find a wealth of practical information, hints and tips for setting up and using the KA9Q NOS.

Ideal for beginners and more advanced users alike.

The emphasis is on hands-on practicalities. You'll see exactly:

- ** how to install NOS on a PC.
- ** how to set up the control files.
- ** how to check out basic operations before going live.
- ** how to use NOS commands for transferring files, logging in to remote systems, sending mail and so on.

=====
What's Inside

=====

- 1 Intro to "NOSintro"
- 2 "NOSview"
- 3 The Ground Rules
- 4 NOS in a Nutshell
- 5 Let's Meet the Locals
- 6 The TNC Revisited
- 7 A Peek at Protocols
- 8 Names, Domains and Addresses
- 9 Client/Server
- 10 Hands On - Hardware Checkout
- 11 Hands On - Software Installation
- 12 NOS File Compendium
- 13 Hands On - Session Manager
- 14 The NOS Command Set
- 15 Hands On - autoexec.nos
- 16 The ftpusers File
- 17 Hands On - FTP
- 18 NOS BBS - The Big Picture
- 19 Setting up the NOS BBS
- 20 The NOS BBS Command Set
- 21 Hands On - BBS File Server
- 22 Hands On - Remote Sysop
- 23 Forwarding SMTP Mail
- 24 Pop Mail Collection
- 25 PBBS Mail Forwarding
- 26 AX.25 Routing
- 27 Address Resolution Protocol
- 28 IP Routing
- 29 NET/ROM Routing
- 30 Going Live: Preparing the Files
- 31 Hands On - AX.25
- 32 Hands On - NET/ROM
- 33 Hands On - Ping and Hop
- 34 Hands On - DNS System
- 35 Trailing Flag

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Appendices

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- 1 Where to get the Software
- 2 NOS Command Set Reference
- 3 NOS Control Files
- 4 Character Codes
- 5 IP Address Coordinators
- 6 References

- ** 356 pages, copiously illustrated with over 80 detailed diagrams, plus countless examples of commands and screen displays.
- ** Extensive and detailed appendices.
- ** Full listings of all the control files needed for NOS.
- ** Although specifically written for a DOS environment, most of the text is equally applicable to OS/2, Windows/NT, Amiga, Atari, MAC, UNIX, VMS and Archimedes implementations of NOS.

=====
What they've been saying about "NOSintro"
=====

I just received my copy of your book last night and I think it's GREAT!! It helped me fix a few problems with my JNOS setup after only glancing thru it for a few minutes. From now on I shall call your NOSintro ..."THE NOS-Bible"!!!!!! -- Bob Merritt, KA4BYP

Helluva book and nifty software package! A lotta guys at HQ are into it, and W1AW is running your NOSview! The station manager, Jeff Bauer, WA1MBK, asked me to help him tweek it up and it's running pretty much around the clock -- Brian Battles, WS10, QST Features Editor, ARRL.

Your book is well designed and I will recommend it to radio amateurs in the Netherlands in my column "Radio and Computer" in Electron -- Kees Olievier, PE1AIO.

I am VERY impressed. Thanks for your many hours of effort. You have made NOS a lot more understandable and usable -- and I've been running NOS here for more than 3 years! -- Alan D Scott, N9BAC, Department of Anatomy, Indiana University School of Medicine.

I must congratulate you on an excellent book. I found the book struck just the right balance between theory and practice -- Fred Dawson, G1HCM.

The "NOSintro" book is an excellent piece of technical writing that should become the standard reference work on TCP/IP over packet radio -- Terry Thirlwell, G8AHS.

It's 350+ pages, and appears to be quite thorough. The few chapters I've had time to browse are rather readable, with good illustrations and plenty of examples. This might be the book that finally gets packet people off their NET/ROM duffs and into real ham radio networking! -- Brian Kantor, WB6CYT, University of California.

Thank you for your copy of "NOSintro" which I received safely last Friday. As it happened, I had a bad night and ended up by reading it in the small hours and can accordingly give you a free testimonial as to its efficacy in putting one to sleep at 0500! - Smudge Lundegard, G3GJW, RSGB Council and former BARTG President

I am professionally involved in communications and networking, and it is one of the most lucid books on the subject I have seen -- John Lee, York.

I have just obtained a copy of your book and am very impressed with it. It must have been a major undertaking to pack so much detailed information into such a concise but very readable format. I think your diagrams are immensely helpful in this respect -- David, GM4XNQ

This gives the best and the most comprehensive hands-on introduction to the KA9Q Network Operating System that I've come across. Diagrams, screen displays and so on make reading of what is, essentially, a "heavy" subject quite light going, even for me! I would recommend the book to both old hands on TCP/IP as well as advanced beginners who'd like to go one further than what is often regarded as the "common" type of packet radio -- Chris Lorek, G4HCL, Ham Radio Today.

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How to get "NOSintro"
=====

All prices are in GB pounds sterling, and include packing and postage.

Mail to UK addresses:	12.85	GB pounds
Airmail to rest of Europe:	14.42	GB pounds
Airmail to Americas, Africa:	16.73	GB pounds
Airmail to rest of the world:	17.34	GB pounds

Payment either:

1. By cheque, in GB pounds sterling, DRAWN ON A UK BANK ONLY.

Cheque to be made payable to "DOWERMAIN LTD" and crossed
"A/C PAYEE ONLY". No other banks or currencies please; it's
too expensive to convert to sterling.

or

2. By credit card. You will be charged the appropriate price
listed above in GB pounds sterling. Your credit card company
will add a nominal currency conversion charge if applicable.

To obtain your copy, please print out and fill in the order form
below:

----- cut here -----

"NOSintro" ORDER FORM

Name:

Address:

.....

.....

.....

Please send me a copy of "NOSintro" and bill my credit card:

12.85 / 14.42 / 16.73 / 17.34 GB pounds
(delete where not applicable)

Credit Card No (VISA/Mastercard/Eurocard):

Expiry Date:

Signature:

----- cut here -----

then mail to:

DOWERMAIN LTD
7 Daubeney Close
Harlington
DUNSTABLE
Bedfordshire
LU5 6NF
United Kingdom

(Please note: your order must be in written/printed form.
We cannot accept orders by phone or fax or electronic mail).

"NOSintro" is also available in the United States from ARRL,
225 Main Street, Newington, CT 06111-1494.

Tel: (203)-666 1541

Fax: (203)-665 7531

Please contact them direct for pricing.

P.S. The book "NOSintro" makes several references to the
"NOSview" software package. This package contains a
full working set of KA9Q NOS software, complete with
all the control files listed in the book.

The "NOSview" software is available free of charge.
If you would like a copy, enclose a DOS-formatted
diskette (any size EXCEPT 360KB) with your order for
the book. N.B. I can only supply the software in
DOS format.

73

Ian Wade

G3NRW

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+-----+-----+	
Ian Wade	e-mail: ian @ g3nrw.demon.co.uk
7 Daubeney Close, Harlington,	AMPRnet: g3nrw.ampr.org [44.131.5.147]
Dunstable, Beds, LU5 6NF, UK.	AX.25: G3NRW @ GB7BIL.#27.GBR.EU

+-----+-----+

Date: Fri, 10 Dec 1993 19:31:24 +0000
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!pipex!
uknet!demon!imcldn.demon.co.uk!mike@network.ucsd.edu
Subject: C SOURCE FOR PBBS??
To: ham-digital@ucsd.edu

In article <931209.73944.TGOODIN@delphi.com> TGOODIN@delphi.com writes:

> I am looking for C Sources for any kind of PBBS for Packet that I might
> be able to compile for use in my unix (ATT 3B2) machine.
> Tim

The only one I can think of offhand was an early version of CBBS - If anyone
else knows of something, please let me know, I would be interested too...

--

Michael P Simkins | Programming in COBOL, C, and PASCAL undertaken, Please
G70BS Software | E-Mail 'software@imcldn.demon.co.uk' to discuss your needs

X400 : /RFC-822=mike(a)imcldn.demon.co.uk/0=mhs-relay/PRMD=uk.ac/ADMD= /C=GB/

Amateur : AX25 : G70BS@GB7DAA.#33.GBR.EU

Date: Mon, 13 Dec 1993 04:50:27 GMT
From: pipex!sunic!news.funet.fi!ousrvr.oulu.fi!oulu.fi!luru@uunet.uu.net
Subject: F6FBB Mailing List
To: ham-digital@ucsd.edu

In article <L9wgec1w165w@stat.com> david@stat.com (David Dodell) writes:

> Welcome!
> You have joined the f6fbb-list@stat.com

Has F6FBB himself access to the list?

Luru

Date: 13 Dec 93 03:16:28 GMT
From: ogicse!uwm.edu!cs.utexas.edu!howland.reston.ans.net!usenet.ins.cwru.edu!
news.csuohio.edu!sww@network.ucsd.edu

Subject: MSYS 1.16 Release
To: ham-digital@ucsd.edu

SB SYSOP @ ALLUS < WA8BXN \$16603_WA8BXN
MSYS 1.16 now available
R:931212/1722 16603@WA8BXN.#NEOH.OH.USA.NA

Hello All - The disks went in the mail on Friday for those to whom I owed disks. IMPORTANT NOTE: The RLI compatible compressed forwarding is still in alpha test state. It has bugs. DO NOT USE IT LIVE! I do need a station who forwards on vhf to a real RLI system to help with the tests (preferably one with complete internet access [mail and ftp]). New in this release:

Improved user interface
Pactor support
Forwarding to FBB systems via modem
Dumb terminal command for ports
User passwords works
Ability to put bid on R: line

There are three disks which contain these files:

MSYS116.EXE required executables and data support files
MOPT116.EXE documentation files
MSYSB116.EXE bbs only version of MSYS, contributed files, source for scan tsrs

These files are available free on Cleveland Hamnet (216-942-6382 300-14400 baud)
Also on internet anonymous ftp at coffman.csuohio.edu 137.148.21.6
They are also available from me at \$5 per disk (covers disk, mailer and postage) to US addresses, \$10 per disk to foreign addresses via airmail. Or for current release only, send formatted disk(s) and sase mailer.

Happy holidays to all! 73 - Mike WA8BXN @ WA8BXN.OH.USA or via internet
map @ cis.csuohio.edu

/EX

Date: 10 Dec 1993 23:24:53 GMT
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!gatech!concert!corpgate!
news.utdallas.edu!rdxsunhost.aud.alcatel.com!usenet@network.ucsd.edu
Subject: WANTED SCHEMATIC TUBE AM RADIO 1955 - 1957
To: ham-digital@ucsd.edu

In need of schematic for and old 1955 - 1957 Motorola AM radio.
Radio is from a old car that is being restored.

Motorola says its too old and they have no info. Sams
has nothing either.

Anyone who can supply schematic, or information at to
a possible source can call

Cliff Staley 214-996-6403
or send email

Thanks
Cliff Staley

Date: Fri, 10 Dec 1993 20:18:44 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sdd.hp.com!col.hp.com!
srngenprp!alanb@network.ucsd.edu
Subject: When will we get digital cellular?
To: ham-digital@ucsd.edu

kevin.jessup (kevin.jessup@mixcom.mixcom.com) wrote:

: ... I am considering the purchase of a cellular phone.

: I know that the current system is FDMA (frequency division multiple
: access) or "analog" cellular and is easily monitored. When will
: digital cellular become the norm? I've heard that 1994 is the
: introductory time frame for initial tests.

: As I understand it, the digital system will use CDMA (code division
: multiple access) and ALL the channels in a single "cell" will be
: "spread" (as in spread-spectrum) over a range of 1.228 MHz. This
: is certainly NOT equivalent to the existing analog hardware that
: uses narrow-band FM transmission "channels" every 30 kHz.

Digital is certainly coming. It's already being tested in some areas.

FDMA, Frequency-Division Multiple Access, means channelized operation,
one user at a time per channel. That's the way the current analog
cellular system works. (Also nearly all amateur operation.)

CDMA, Code-Division, Multiple Access, is a proposed new digital system
invented by a company called Qual-Com. It's a type of spread-spectrum
transmission where each user's signal covers the entire band. Each
transmitter is coded with a unique digital sequence which allows the
receiver to filter out all the unwanted signals with different sequences.
You theoretically don't get any more users per kHz than with FDMA, but
digital compression, power-control, and other techniques actually allow
many more users to be squeezed into the same spectrum.

While CDMA is making good progress, the "official" standard system for digital cellular is a type of TDMA, Time-Division Multiple Access. With TDMA, many users share the same channel, apparently at the same time. What's actually happening is that the digital signal is speeded up, so that the bits can be sent much faster than real-time. This leaves unused transmit time that other users can use. Actually, the system in use is really TDMA/FDMA, since there are still several channels in use, albeit with several users per channel.

AL N1AL

Date: 9 Dec 1993 10:29:59 -0600
From: pravda.sdsc.edu!usc!howland.reston.ans.net!europa.eng.gtefsd.com!
avdms8.msfc.nasa.gov!bcm!TAMUTS.TAMU.EDU!not-for-mail@network.ucsd.edu
To: ham-digital@ucsd.edu

References <1993Dec8.183212.14971@alw.nih.gov>, <755387317snz@g3nrw.demon.co.uk>,
<9DEC199306480878@nssdca.gsfc.nasa.gov>AM
Subject : Re: COMPLETE Documented NOS Wanted

In article <9DEC199306480878@nssdca.gsfc.nasa.gov>,
ERICH FRANZ STOCKER <stocker@nssdca.gsfc.nasa.gov> wrote:

>
>I have enjoyed the work and am still enjoying it. I don't think anything else
>available comes close to providing the information needed to optimize the
>NOS environment. I'm getting close to the point where I feel that I can
>really do that.
>
>Erich Stocker
>N30XM

Er.. so where do we get this tome? I sure could use an introduction to NOS. Is it available by ftp or is it only available through the ARRL?

Thanks

Mark

--
Mark S. Whitsitt, N5RJF Texas A&M University, Dept of Biochemistry
Internet: mwhitsitt@tamu.edu College Station, Tx. 77843-2128
AMPRnet: n5rjff@n5rjff.ampr.org (409) 845-0832

End of Ham-Digital Digest V93 #145

